

AMENDMENTS TO THE CLAIMS

1. **(Previously presented)** An electrolyte for the galvanic deposition of aluminum-magnesium alloys, containing at least one organoaluminum complex compound of formula $MAIR_4$ or mixtures thereof and an alkylmagnesium compound, wherein M represents Na, K, Rb or Cs, and R represents a C_1 - C_{10} alkyl group.

2. **(Previously presented)** The electrolyte according to claim 1, wherein the electrolyte additionally includes trialkylaluminum.

3. **(Previously presented)** The electrolyte according to claim 2, wherein the electrolyte includes AlR_3 , M^1AlR_4 , M^2AlR_4 and $Mg(R^1)_x(R^2)_y$, wherein M^1 and M^2 are different from each other, representing Na, K, Rb or Cs, R represents a C_1 - C_{10} alkyl group, R^1 and R^2 independently represent a C_1 - C_{20} alkyl group, and $x = 0$ to 2 , and $y = 0$ to 2 , and $x + y = 2$.

4. **(Previously presented)** The electrolyte according to Claim 3, wherein the alkylmagnesium compound is included in an amount of from 0.01 to 10 mole-%, relative to the aluminum complex.

5. **(Currently amended)** The electrolyte according to Claim 4, wherein the alkylmagnesium compound is selected from the group of $Mgbutyl_{1.5}octyl_{0.5}$, $Mgbutyl_{1.0}ethyl_{1.0}$, $Mgsec-butyl_{1.0}n-butyl_{1.0}$ or mixtures thereof.

6. **(Previously presented)** The electrolyte according to Claim 1, wherein the electrolyte includes an organic solvent.

7. **(Previously presented)** The electrolyte according to claim 6, wherein the organic solvent is an aromatic solvent.

8. **(Previously presented)** The electrolyte according to claim 7, wherein the aromatic solvent is benzene, toluene or xylene or a mixture thereof.

9. **(Withdrawn)** A method for the production of the electrolyte according to Claim 1, comprising:

- supplying an organoaluminum complex compound of formula $MAIR_4$ or a mixture thereof, and

- adding an alkylmagnesium compound,

wherein M represents Na, K, Rb or Cs, and R represents a C_1 - C_{10} alkyl group.

10. **(Withdrawn)** The method according to claim 9, wherein the organoaluminum complex compound is a mixture of M^1AlR_4 and M^2AlR_4 , wherein M^1 and M^2 are different from each other, representing Na, K, Rb or Cs, R represents a C_1 - C_{10} alkyl group.

11. **(Withdrawn)** The method according to claim 9, wherein the alkylmagnesium compound is $Mg(R^1)_x(R^2)_y$, wherein R^1 and R^2 independently represent a C_1 - C_{20} , and $x = 0$ to 2 , and $y = 0$ to 2 , and $x + y = 2$.

12. **(Withdrawn)** The method according to Claim 11, wherein the alkylmagnesium compound is added dissolved in a hydrocarbon.

13. **(Withdrawn)** The method according to Claim 11, wherein the alkylaluminum complex is supplied dissolved in an aromatic hydrocarbon.

14. **(Withdrawn)** The method according to claim 12, wherein the hydrocarbon is a saturated or unsaturated hydrocarbon.

15. **(Withdrawn)** The method according to claim 14, wherein the hydrocarbon is selected from the group of i-pentane, n-pentane, hexane, n-hexane, heptane, n-heptane, toluene, xylene.

16. **(Previously presented)** An electrolyte for the production of aluminum-magnesium alloys on electrically conducting materials or electrically conducting layers, which can be produced according to the method of Claim 9.

17. **(Withdrawn)** A method of coating electrically conducting materials or layers with aluminum-magnesium alloys comprising coating said electrically conducting materials or layers with the electrolyte in accordance with Claim 1, in which method the alkylmagnesium compound is metered during coating.

18. **(Cancelled)**

19. **Previously presented)** An electrolysis kit for the galvanic deposition of aluminum-magnesium alloys on electrically conducting materials or layers, including:

(a) the organoaluminum complex compounds or alkylaluminum compounds of Claim 1; and

(b) an alkylmagnesium compound in accordance with Claim 1.

20. **(Previously presented)** The electrolysis kit according to claim 19, wherein the compounds (a) and (b) are present in an organic solvent.

21. **(Previously presented)** The electrolyte of Claim 3, wherein R represents C₁-C₄ alkyl group.
22. **(Previously presented)** The electrolyte of Claim 3, wherein R¹ and R² independently represent a C₂-C₁₀ alkyl group.
23. **(Previously presented)** The electrolyte of Claim 4, wherein the alkylmagnesium compound is included in an amount of from 0.1 to 1 mole% relative to the aluminum complex.
24. **(Withdrawn)** The method of Claim 9, wherein the organoaluminum complex compound of formula MAIR₄ is supplied in combination with trialkylaluminum.
25. **(Withdrawn)** The method of Claim 9, wherein R represents a C₁-C₄ alkyl group.
26. **(Withdrawn)** The method of Claim 11, wherein R¹ and R² independently represent a C₂-C₁₀ alkyl group.